

**EXCELCHEM**  
**Environmental Labs**

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**ELAP Certificate No. : 2119**

09 November 2012

Calvin Yang

RWQC Central Valley

11020 Sun Center Dr. #200

Rancho Cordova, CA 95670

RE: MUN Evaluation

Work order number:1210408

Enclosed are the results of analyses for samples received by the laboratory on 10/30/12 16:15. All Quality Control results are within acceptable limits except where noted as a case narrative. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

John Somers, Lab Director

## Excelchem Environmental Labs

RWQC Central Valley  
11020 Sun Center Dr. #200  
Rancho Cordova, CA 95670

Project: MUN Evaluation  
Project Number: [none]  
Project Manager: Calvin Yang

Date Reported:  
11/09/12 12:27

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AWL121030-40	1210408-01	Water	10/30/12 11:27	10/30/12 16:15
AWL121030-41	1210408-02	Water	10/30/12 11:44	10/30/12 16:15
AWL121030-42	1210408-03	Water	10/30/12 11:53	10/30/12 16:15
AWL121030-43	1210408-04	Water	10/30/12 14:14	10/30/12 16:15
AWL121030-44	1210408-05	Water	10/30/12 14:36	10/30/12 16:15
AWL121030-45	1210408-06	Water	10/30/12 14:54	10/30/12 16:15
AWL121030-50	1210408-07	Water	10/30/12 08:11	10/30/12 16:15
AWL121030-51	1210408-08	Water	10/30/12 09:00	10/30/12 16:15
AWL121030-52	1210408-09	Water	10/30/12 09:14	10/30/12 16:15
AWL121030-53	1210408-10	Water	10/30/12 09:27	10/30/12 16:15
AWL121030-54	1210408-11	Water	10/30/12 10:05	10/30/12 16:15
AWL121030-55	1210408-12	Water	10/30/12 10:31	10/30/12 16:15
AWL121030-56	1210408-13	Water	10/30/12 13:41	10/30/12 16:15
AWL121030-57	1210408-14	Water	10/30/12 05:15	10/30/12 16:15
AWL121030-58	1210408-15	Water	10/30/12 08:11	10/30/12 16:15

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Laboratory Representative

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RWQC Central Valley  
11020 Sun Center Dr. #200  
Rancho Cordova, CA 95670

Project: MUN Evaluation  
Project Number: [none]  
Project Manager: Calvin Yang

Date Reported:  
11/09/12 12:27

### AWL121030-40 1210408-01 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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#### Ion Chromatography

Nitrate as Nitrogen	17.6	1.10	0.20	mg/L	10	AVK0409	10/31/12	10/31/12	EPA 300.0	
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#### Dissolved Metals

Dissolved Arsenic	38.7	10.0	1.0	ug/l	1	AVK0130	11/01/12	11/02/12	EPA 200.7	
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Project: MUN Evaluation  
Project Number: [none]  
Project Manager: Calvin Yang

Date Reported:  
11/09/12 12:27

### AWL121030-41 1210408-02 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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#### Ion Chromatography

Nitrate as Nitrogen	16.8	1.10	0.20	mg/L	10	AVK0409	10/31/12	10/31/12	EPA 300.0	
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#### Dissolved Metals

Dissolved Arsenic	38.0	10.0	1.0	ug/l	1	AVK0130	11/01/12	11/02/12	EPA 200.7	
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Project: MUN Evaluation  
Project Number: [none]  
Project Manager: Calvin Yang

Date Reported:  
11/09/12 12:27

### AWL121030-42 1210408-03 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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#### Ion Chromatography

Nitrate as Nitrogen	18.1	1.10	0.20	mg/L	10	AVK0409	10/31/12	10/31/12	EPA 300.0	
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#### Dissolved Metals

Dissolved Arsenic	37.4	10.0	1.0	ug/l	1	AVK0130	11/01/12	11/02/12	EPA 200.7	
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Date Reported:  
11/09/12 12:27

### AWL121030-43 1210408-04 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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#### Ion Chromatography

Nitrate as Nitrogen	0.23	0.11	0.02	mg/L	1	AVK0409	10/30/12	10/30/12	EPA 300.0	
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#### Dissolved Metals

Dissolved Arsenic	3.5	10.0	1.0	ug/l	1	AVK0130	11/01/12	11/02/12	EPA 200.7	J
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11/09/12 12:27

### AWL121030-44 1210408-05 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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#### Ion Chromatography

Nitrate as Nitrogen	0.26	0.11	0.02	mg/L	1	AVK0409	10/30/12	10/30/12	EPA 300.0	
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#### Dissolved Metals

Dissolved Arsenic	1.7	10.0	1.0	ug/l	1	AVK0130	11/01/12	11/02/12	EPA 200.7	J
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Project Number: [none]  
Project Manager: Calvin Yang

Date Reported:  
11/09/12 12:27

### AWL121030-45 1210408-06 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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#### Ion Chromatography

Nitrate as Nitrogen	0.26	0.11	0.02	mg/L	1	AVK0409	10/30/12	10/30/12	EPA 300.0	
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#### Dissolved Metals

Dissolved Arsenic	1.7	10.0	1.0	ug/l	1	AVK0130	11/01/12	11/02/12	EPA 200.7	J
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Project Number: [none]  
Project Manager: Calvin Yang

Date Reported:  
11/09/12 12:27

### AWL121030-50 1210408-07 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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#### Ion Chromatography

Nitrate as Nitrogen	0.16	0.11	0.02	mg/L	1	AVK0409	10/30/12	10/30/12	EPA 300.0	
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#### Dissolved Metals

Dissolved Arsenic	1.0	10.0	1.0	ug/l	1	AVK0130	11/01/12	11/02/12	EPA 200.7	J
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Project Number: [none]  
Project Manager: Calvin Yang

Date Reported:  
11/09/12 12:27

### AWL121030-51 1210408-08 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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#### Ion Chromatography

Nitrate as Nitrogen	0.23	0.11	0.02	mg/L	1	AVK0409	10/30/12	10/31/12	EPA 300.0	
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#### Dissolved Metals

Dissolved Arsenic	1.5	10.0	1.0	ug/l	1	AVK0130	11/01/12	11/02/12	EPA 200.7	J
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Project Manager: Calvin Yang

Date Reported:  
11/09/12 12:27

### AWL121030-52 1210408-09 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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#### Ion Chromatography

Nitrate as Nitrogen	0.28	0.11	0.02	mg/L	1	AVK0409	10/30/12	10/31/12	EPA 300.0	
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#### Dissolved Metals

Dissolved Arsenic	2.8	10.0	1.0	ug/l	1	AVK0130	11/01/12	11/02/12	EPA 200.7	J
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Date Reported:  
11/09/12 12:27

### AWL121030-53 1210408-10 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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#### Ion Chromatography

Nitrate as Nitrogen	0.32	0.11	0.02	mg/L	1	AVK0409	10/30/12	10/31/12	EPA 300.0	
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#### Dissolved Metals

Dissolved Arsenic	1.9	10.0	1.0	ug/l	1	AVK0130	11/01/12	11/02/12	EPA 200.7	J
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Date Reported:  
11/09/12 12:27

### AWL121030-54 1210408-11 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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#### Ion Chromatography

Nitrate as Nitrogen	0.25	0.11	0.02	mg/L	1	AVK0409	10/30/12	10/31/12	EPA 300.0	
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#### Dissolved Metals

Dissolved Arsenic	3.9	10.0	1.0	ug/l	1	AVK0128	11/01/12	11/02/12	EPA 200.7	J
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Project Number: [none]  
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Date Reported:  
11/09/12 12:27

### AWL121030-55 1210408-12 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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#### Ion Chromatography

Nitrate as Nitrogen	0.34	0.11	0.02	mg/L	1	AVK0409	10/30/12	10/31/12	EPA 300.0	
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#### Dissolved Metals

Dissolved Arsenic	2.8	10.0	1.0	ug/l	1	AVK0128	11/01/12	11/02/12	EPA 200.7	J
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Date Reported:  
11/09/12 12:27

### AWL121030-56 1210408-13 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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#### Ion Chromatography

Nitrate as Nitrogen	0.24	0.11	0.02	mg/L	1	AVK0409	10/30/12	10/31/12	EPA 300.0	
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#### Dissolved Metals

Dissolved Arsenic	3.0	10.0	1.0	ug/l	1	AVK0128	11/01/12	11/02/12	EPA 200.7	J
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Rancho Cordova, CA 95670

Project: MUN Evaluation  
Project Number: [none]  
Project Manager: Calvin Yang

Date Reported:  
11/09/12 12:27

### AWL121030-57 1210408-14 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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#### Dissolved Metals

Dissolved Arsenic	ND	10.0	1.0	ug/l	1	AVK0128	11/01/12	11/02/12	EPA 200.7	
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Rancho Cordova, CA 95670

Project: MUN Evaluation  
Project Number: [none]  
Project Manager: Calvin Yang

Date Reported:  
11/09/12 12:27


### AWL121030-58 1210408-15 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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#### Dissolved Metals

Dissolved Arsenic	ND	10.0	1.0	ug/l	1	AVK0128	11/01/12	11/02/12	EPA 200.7	
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Project: MUN Evaluation  
Project Number: [none]  
Project Manager: Calvin Yang

Date Reported:  
11/09/12 12:27

### Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch AVK0409 - EPA 300.0

##### Blank (AVK0409-BLK1)

Prepared & Analyzed: 10/30/12

Nitrate (NO3)	ND	0.50	0.09	mg/L							
Nitrate as Nitrogen	ND	0.11	0.02	"							

##### LCS (AVK0409-BS1)

Prepared & Analyzed: 10/30/12

Nitrate (NO3)	9.19	0.50	0.09	mg/L	10.0		91.9	80-120			
Nitrate as Nitrogen	2.07	0.11	0.02	"	2.26		91.8	80-120			

##### LCS Dup (AVK0409-BSD1)

Prepared & Analyzed: 10/30/12

Nitrate (NO3)	9.26	0.50	0.09	mg/L	10.0		92.6	80-120	0.737	20	
Nitrate as Nitrogen	2.09	0.11	0.02	"	2.26		92.5	80-120	0.737	20	

##### Duplicate (AVK0409-DUP1)

Source: 1210408-08

Prepared & Analyzed: 10/31/12

Nitrate (NO3)	1.11	0.50	0.09	mg/L		1.03			7.01	20	
Nitrate as Nitrogen	0.25	0.11	0.02	"		0.23			7.01	20	

##### Matrix Spike (AVK0409-MS1)

Source: 1210408-12

Prepared & Analyzed: 10/31/12

Nitrate (NO3)	11.2	0.50	0.09	mg/L	10.0	1.52	97.0	75-125			
Nitrate as Nitrogen	2.53	0.11	0.02	"	2.26	0.34	96.9	75-125			


##### Matrix Spike Dup (AVK0409-MSD1)

Source: 1210408-12

Prepared & Analyzed: 10/31/12

Nitrate (NO3)	11.3	0.50	0.09	mg/L	10.0	1.52	97.3	75-125	0.267	20	
Nitrate as Nitrogen	2.54	0.11	0.02	"	2.26	0.34	97.2	75-125	0.267	20	

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Project: MUN Evaluation  
Project Number: [none]  
Project Manager: Calvin Yang

Date Reported:  
11/09/12 12:27

### Dissolved Metals - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch AVK0128 - EPA 200.7

##### Blank (AVK0128-BLK1)

Prepared: 11/01/12 Analyzed: 11/02/12

Dissolved Arsenic	ND	10.0	1.0	ug/l							
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##### LCS (AVK0128-BS1)

Prepared: 11/01/12 Analyzed: 11/02/12

Dissolved Arsenic	958	10.0	1.0	ug/l	1000		95.8	85-115			
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##### LCS Dup (AVK0128-BSD1)

Prepared: 11/01/12 Analyzed: 11/02/12

Dissolved Arsenic	962	10.0	1.0	ug/l	1000		96.2	85-115	0.479	20	
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##### Matrix Spike (AVK0128-MS1)

Source: 1210408-11

Prepared: 11/01/12 Analyzed: 11/02/12

Dissolved Arsenic	1000	10.0	1.0	ug/l	1000	3.90	100	75-125			
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##### Matrix Spike Dup (AVK0128-MSD1)

Source: 1210408-11

Prepared: 11/01/12 Analyzed: 11/02/12

Dissolved Arsenic	992	10.0	1.0	ug/l	1000	3.90	98.8	75-125	1.20	25	
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#### Batch AVK0130 - EPA 200.7

##### Blank (AVK0130-BLK1)

Prepared: 11/01/12 Analyzed: 11/02/12

Dissolved Arsenic	1.00	10.0	1.0	ug/l							J
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##### LCS (AVK0130-BS1)

Prepared: 11/01/12 Analyzed: 11/02/12

Dissolved Arsenic	975	10.0	1.0	ug/l	1000		97.5	85-115			
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##### LCS Dup (AVK0130-BSD1)

Prepared: 11/01/12 Analyzed: 11/02/12

Dissolved Arsenic	972	10.0	1.0	ug/l	1000		97.2	85-115	0.318	20	
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##### Matrix Spike (AVK0130-MS1)

Source: 1210408-01

Prepared: 11/01/12 Analyzed: 11/02/12

Dissolved Arsenic	1050	10.0	1.0	ug/l	1000	38.7	101	75-125			
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Project: MUN Evaluation  
Project Number: [none]  
Project Manager: Calvin Yang

Date Reported:  
11/09/12 12:27

### Dissolved Metals - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch AVK0130 - EPA 200.7

##### Matrix Spike Dup (AVK0130-MSD1)

Source: 1210408-01

Prepared: 11/01/12 Analyzed: 11/02/12

Dissolved Arsenic	1050	10.0	1.0	ug/l	1000	38.7	101	75-125	0.0956	25	
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Excelchem Environmental Lab.



Laboratory Representative

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## Excelchem Environmental Labs

RWQC Central Valley  
11020 Sun Center Dr. #200  
Rancho Cordova, CA 95670

Project: MUN Evaluation  
Project Number: [none]  
Project Manager: Calvin Yang

Date Reported:  
11/09/12 12:27

### Notes and Definitions

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).  
ND Analyte not detected at reporting limit.  
NR Not reported

### Analysis Method

EPA 8260, EPA 8021/8015M  
EPA 8270, EPA 8081, EPA 8082, EPA 8141, EPA 8015M (extractable)  
Metals  
TCLP  
Not Specified

### Prep Method

EPA 5030B  
Water - EPA 3510C, Soil- EPA 3550B  
Water- 3005A, Soil- 3050B  
EPA 1311  
Same as Analysis Method

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Project: MUN Evaluation  
Project Number: [none]  
Project Manager: Calvin Yang

Date Reported:  
11/09/12 12:27

Excelchem Environmental Labs		CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST														
1135 W. Sunset Blvd. Suite A Redlin, CA 95765 Phone #: 916-543-4445 Fax: 916-543-4449 Project Manager: Calvin Yang, Leticia Valadez Email Address: ccyang@waterboards.ca.gov lvaladez@waterboards.ca.gov		Electronic Data Deliverables Request: <input type="checkbox"/> PDF <input type="checkbox"/> Geotracker (shape file) <input type="checkbox"/> Other (please specify)														
Company Address: Central Valley Regional Water Quality Control Board 11020 Sun Center Drive Suite #200 Rancho Cordova, CA 95670		Project Name: MUN Evaluation														
Project Number/P.O.#: 10-026-150-0		Page 1 of 1														
Project Location: Calvin Yang		ANALYSIS REQUEST														
Sample ID	Sampling Date Time	Container	Method Preserved	Matrix										Requested TAT, 2wks	LAB USE ONLY	
				IN	NO	ICM	WATER	SOIL	AIR	Dissolved Arsenic	Nitrate N	Ammonia N	Phosphate P			
AWL121030-40	11/27	X	X												X	01
AWL121030-41	11/14	X	X												X	02
AWL121030-42	11/53	X	X												X	03
AWL121030-43	11/14	X	X												X	04
AWL121030-44	11/26	X	X												X	05
AWL121030-45	11/54	X	X												X	06
AWL121030-50	8/11	X	X												X	07
AWL121030-51	8/10	X	X												X	08
AWL121030-52	8/14	X	X												X	09
AWL121030-53	8/27	X	X												X	10
AWL121030-54	10/5	X	X												X	11
AWL121030-55	10/1	X	X												X	12
AWL121030-56	12/1	X	X												X	13
AWL121030-57	5/5/5	X	X												X	14
AWL121030-58	8/11	X	X												X	15
Relinquished by (sign and print)		Date Time		Received by (sign and print)										Remarks/Condition of Sample:		
Calvin Yang		10/26/12 1615		Leticia Valadez										Filter in Lab		
Relinquished by (sign and print)		Date Time		Received by Laboratory (sign and print)										Bill To: Leticia Valadez, Central Valley Regional Water Quality Control Board		
		11/9/12 12:27		Calvin Yang												

Excelchem Environmental Lab.

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Laboratory Representative

RWQC Central Valley  
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Rancho Cordova, CA 95670

Project: MUN Evaluation  
Project Number: [none]  
Project Manager: Calvin Yang

Date Reported:  
11/09/12 12:27

Laboratory Analysis Request Form  
 PCA No. \_\_\_\_\_ FY 12/13  
 Staff Person: Calvin Yang Approved by: \_\_\_\_\_  
 Senior (Supr. if > \$500)  
 Sample Location \_\_\_\_\_  
 Date and Time of Departure from Office: \_\_\_\_\_ October 25, 30 - 5am  
 Date and Time of Sampling: \_\_\_\_\_ October 25, 30 - 7am - 4pm  
 Date and Time of Delivery to Laboratory: \_\_\_\_\_ October 25, 30 - 5pm  
 Purpose of Sampling: \_\_\_\_\_ MUN Evaluation  
 Sample Sites (Attach map if available): \_\_\_\_\_

[illegible]

Required Bottles:

_____ Vials	_____ liter amber glass	_____ gal. amber glass
_____ Liter plastic (HNO <sub>3</sub> )	_____ liter plastic (H <sub>2</sub> SO <sub>4</sub> )	_____ liter plastic
_____ 250 ml plastic (H <sub>2</sub> SO <sub>4</sub> )	_____ other	

HEP form needed? (Include for senior, if needed)

Excelchem Environmental Lab.

John Adams

Laboratory Representative

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## Excelchem Environmental Labs

RWQC Central Valley  
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Project: MUN Evaluation  
Project Number: [none]  
Project Manager: Calvin Yang

Date Reported:  
11/09/12 12:27

### Sample Integrity

WORK ORDER 1210408

Date Received: 10-30-12

#### Section 1 – Sample Arrival Info.

Sample Transport: ONTRAC UPS USPS Walk-In EXCELCHEM Courier Fed-Ex Other: \_\_\_\_\_  
Transported In: Ice Chest Box Hand  
Describe type of packing materials: Bubble Wrap Foam Packing Peanuts Paper Other: \_\_\_\_\_  
Has chilling process begun? Y N Samples Received: Chilled to Touch / Ambient / On Ice  
Temperature of Samples (°C): 8 Ice Chest Temperature(s) (°C): 8

#### Section 2 – Bottle/Analysis Info.

	Yes	No	N/A	Comments
Did all bottles arrive unbroken and intact?	<input checked="" type="checkbox"/>			
Did all bottle labels agree with COC?	<input checked="" type="checkbox"/>			
Were correct containers used for the tests requested?	<input checked="" type="checkbox"/>			
Were correct preservations used for the tests requested?			<input checked="" type="checkbox"/>	NO time or date on bottles - going off COC - going
Was a sufficient amount of sample sent for tests indicated?	<input checked="" type="checkbox"/>			
Were bubbles present in VOA Vials?: (Volatile Methods Only)			<input checked="" type="checkbox"/>	

#### Section 3 – Summa/Flow regulator Info.

Used Summa#: \_\_\_\_\_  
Unused Summa#: \_\_\_\_\_  
Cleaning Summa#: \_\_\_\_\_  
Regulator#: \_\_\_\_\_  
Was there any visual damage to summa canisters or flow regulators? Explain.  
\_\_\_\_\_  
\_\_\_\_\_

#### Section 4 – COC Info.

	Completed		Info From Container		Completed		Comments
	Yes	No			Yes	No	
Was COC Received	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		
Date Sampled	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		
Time Sampled	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		
Sample ID	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		
Rush TAT		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Analysis Requested					<input checked="" type="checkbox"/>		
Samples arrived within holding time					<input checked="" type="checkbox"/>		
Any hold times less than 72 hrs					<input checked="" type="checkbox"/>		
Client Name					<input checked="" type="checkbox"/>		
Address/Telephone #					<input checked="" type="checkbox"/>		

#### Section 5 – Comments / Discrepancies

Was Client notified of discrepancies: Yes No N/A Notified by: \_\_\_\_\_  
Explanations / Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Samples Labeled by: pc  
Bin #: 513  
COC Scanned/Attached by: pc  
Sample labels reviewed by: \_\_\_\_\_

Filled \_\_\_\_\_ Date: 10-30-12  
Out by: \_\_\_\_\_ Time: \_\_\_\_\_

Excelchem Environmental Lab.



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